



nanopore sequencing

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Patents

Patents 1 - 10 on nanopore sequencing. (0.02 seconds)

Sequencing method using magnifying tags

US Pat. 6723513 - Filed Jun 22, 2001 - Lingvitae AS

15 shows the method of binary end conversion before nanopore sequencing in which the procedure to produce target molecule containing conversion adapters is ...

Method and apparatus for nucleic acid sequencing and identification

US Pat. 7005264 - Filed May 20, 2002 - Intel Corporation

The method of claim 1, wherein each nanopore is operably coupled to a detector.

3. The method of claim 1, wherein only one labeled nucleic acid passes ...

Methods and apparatus for nucleic acid sequencing by signal stretching and data integration

US Pat. 6952651 - Filed Jun 17, 2002 - Intel Corporation

In certain embodiments of the invention, the nanopore 150 is between 1 and nm

... In particular embodiments, the nanopore 150 may be located within a lipid ...

Molecular and atomic scale evaluation of biopolymers

US Pat. 6627067 - Filed Jun 22, 2000 - President and Fellows of Harvard College

60/140201 entitled "Method for Producing and Controlling the Size of Holes in Membranes, with Application to Voltage-Controlled Nanopore Sequencing of DNA ...

Lithographic fabrication of nanoapertures

US Pat. 6503409 - Filed May 25, 2000 - Sandia Corporation

Conventional technology can at best produce holes with diameters of 40-50 nm, whereas the requirement for a sequencing nanopore is roughly 2 nm. ...

Solution-based methods and materials for sequence analysis by hybridization

US Pat. 6537755 - Filed Mar 27, 2000

In preferred embodiments of the method, a reader comprising a nanopore channel

... is particularly advantageous for sequencing and resequencing applications ...

Biosensor compositions and methods of use

US Pat. 6916665 - Filed Feb 12, 2001 - The Texas A&M University System

A DNA-nanopore was also used to sequence a codon on a single strand of DNA.

The sequencing principle was based on the match/mismatch-dependent binding time ...

Methods and devices for characterizing duplex nucleic acid molecules

US Pat. 6936433 - Filed Nov 21, 2001 - The Regents of the University of California

A nanopore device for characterizing an unlabeled duplex nucleic acid molecule

... A kit for use in sequencing a duplex DNA molecule, said kit comprising: a ...

Miniature support for thin films containing single channels or nanopores and methods for using same

US Pat. 6267872 - Filed Oct 29, 1999 - The Regents of the University of California

The device according to claim 2, wherein said nanopore 15. ... heptameric channel of characterizing is a method of sequencing a nucleic acid. a means for ...

Characterization of individual polymer molecules based on monomer-interface interactions

US Pat. 6673615 - Filed Feb 20, 2002 - President and Fellows of Harvard College

The state of the analyte is easily detected using the nanopore by ... This embodiment of the sequencing invention is encompassed by pulling a single ...

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#6 Search channel and sequence	12:02:16	13901
#5 Search channel and (DNA or RNA or nucleic) and sequence	12:02:04	5340
#4 Search channel and polymer and sequence	12:01:49	248
#3 Search FRET and (pore)	11:57:55	48
#2 Search nanopore sequencing	11:53:59	17
#1 Search Branton, Daniel[author]	11:51:33	7

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»

I Braslavsky, B Hebert, E Kartalov, SR Quake - Proceedings of the National Academy of Sciences, 2003 - National Acad Sciences

... Exchange Sequence for Single-Pair FRET Sequencing ... tags were bleached by the green laser illumination (Fig ... incorporations of fluorophores in a single template can ...

Cited by 61 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Single Molecule Detection in Life Sciences - all 3 versions

Y Ishii, T Yanagida - Single Molecules, 2000 - doi.wiley.com

... while the other end was fixed by a laser trap ... Combining this with SMD, it has been demonstrated that FRET can be ... A single EGF molecule can be seen as a spot and ...

Cited by 55 - [Related Articles](#) - [Web Search](#)

Single-molecule fluorescence spectroscopy of enzyme conformational dynamics and cleavage mechanism - all 12 versions

T Ha, AY Ting, J Liang, WB Caldwell, AA Deniz, DS ... - Proceedings of the National Academy of Sciences, 1999 - National Acad Sciences

... The instantaneous FRET efficiency $E(t)$ was calculated from the ... at 23°C. The 514-nm excitation laser spot (Ar ... b) Emission time trace of a single double-labeled ...

Cited by 141 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

... molecule sorting: Analysis of structure and interactions by alternating-laser excitation of single ... - all 10 versions

AN Kapanidis, NK Lee, TA Laurence, S Doose, E ... - Proceedings of the National Academy of Sciences, 2004 - National Acad Sciences

... Abbreviations: ALEX, alternating-laser excitation; A, acceptor; D, donor; FRET, Förster resonance energy ... activator protein; spFRET, single-pair FRET ...

Cited by 37 - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

Accurate FRET Measurements within Single Diffusing Biomolecules Using Alternating-Laser Excitation - all 10 versions

NK Lee, AN Kapanidis, Y Wang, X Michalet, J ... - Biophysical Journal, 2005 - Biophysical Soc ... F, which represent photon counts per diffusing molecule). ... main reason why conventional single-laser excitation spFRET underperforms on FRET species with ...

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Single-Molecule Measurement of Protein Folding Kinetics - all 11 versions

EA Lipman, B Schuler, O Bakajin, WA Eaton - Science, 2003 - sciencemag.org

... 1/e 2 intensity contour of the laser beam is ... In an ensemble FRET experiment, both collapse and fold ... Recent advances in single-molecule enzymatic assays have ...

Cited by 86 - [Related Articles](#) - [Web Search](#)

Probes for Detection of Specific DNA Sequences at the Single-Molecule Level - all 8 versions

JP Knemeyer, N Marmé, M Sauer - Cytometry, 1999 - atto-tec.de

... were excited by a pulsed diode laser emitting at ... conformational change that forces the FRET donor and ... for homogeneous assays at the single-molecule level (nano ...



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